



GeoPro 1.5 *Messenger* 1.2r User Guide

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Overview

This user guide provides a complete reference to the GeoPro *Messenger*. You will discover all the features and components that you need to operate your device.

For ease of use, the chapters in this document are divided by menu options and the main functions to guide you step by step.

The GeoPro *Messenger* is a GPS satellite communication device that enables users to send short (160-character) text messages, perform check-ins, and signal emergencies. The device communicates with the GeoPro Web Application and can be used to message other email, cellular phone, or GeoPro users. It also enables authorized persons to track user movement in the field.

Safety

IMPORTANT: Read this information before using your GeoPro *Messenger* satellite device. Your GeoPro *Messenger* is a low power radio transmitter and receiver. When the device is ON, it receives and sends out radio frequency (RF) signals.

For Class B Unintentional Radiators:

This equipment has been tested and found to comply with the limits for Class B digital devices, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

WARNING: Changes or modifications not expressly approved by GeoPro LBS Inc. could void the user's authority to operate the equipment

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation

Electrical safety

Charge the GeoPro *Messenger* device using only the USB cable provided with an approved charger, or specifically approved by GeoPro for use with this GeoPro device. Any approval from GeoPro under this document must be in writing and must be from a person authorized to provide such approval. Use of any other accessory might invalidate any warranty provided with the GeoPro device and might be dangerous. Use the charging accessories provided with the GeoPro device or any other GeoPro approved charging accessories only from the type of power source indicated on the marking label. Before using any power supply, verify that the mains voltage is in accordance with the voltage printed on the power supply.

Unplug charging accessories during lightning storms or when unused for long periods of time. Do not use charging accessories outside or in any area exposed to the elements, unless the charging accessory is designated for such use. For more information about inserting the lithium-ion battery and connecting the power supply, see below.

Exposure to RF

The GeoPro *Messenger* device is a low-power radio transmitter and receiver. When the GeoPro device radio is turned on, it receives and also sends out radio frequency (RF) signals. The GeoPro device is designed to comply with Federal Communications Commission (FCC), European Conformity (CE), and Industry Canada (IC) guidelines respecting safety levels of RF exposure for wireless devices, which in turn are consistent with the following safety standards and recommendations previously set by international agencies for the protection of public exposure to RF electromagnetic energy.

- International Commission on Non- Ionizing Radiation Protection (ICNIRP)
- Verband Deutscher Elektrotechniker (VDE)
- United States Federal Commission, Radio - Frequency Exposure Guidelines
- National Radiological Protection Board of the United Kingdom
- American National Standards Institute - (ANSI) IEEE. C95. 1-1992
- National Council on Radiation Protection and Measurements (NCRP). Report 86
- Department of Health and Welfare Canada. Safety Code 6

These updated ANSI standards are based on an extensive scientific review of the available body of research by over 120 scientists, engineers, and physicians from universities, government health agencies and related industries. The design of your device complies with these standards when used as described in the [Device Operation](#) section.

This product is compliant with Industry Canada RSS-102 for RF Exposure.

Specific Absorption Rate Data (SAR)

IMPORTANT: This satellite device model meets international standards for exposure to radio waves.

Your GeoPro *Messenger* device is a radio transmitter and receiver. It is designed and manufactured not to exceed limits for exposure to radio frequency (RF) energy. These limits are part of comprehensive guidelines and established permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The guidelines include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for mobile devices employs a unit of measurement known as the Specific Absorption Rate, or SAR. Under the guidelines for this model, the SAR limit is 1.6 W/kg¹. The SAR limit recommended by The Council of the European Union is 2.0W/kg² Tests for SAR were conducted in

¹ In the United States and Canada, the SAR limit for mobile devices used by the public is 1.6 watts/kg (W/kg) averaged over 1 gram of tissue for the body or head (4.0 W/kg averaged over 10 grams of tissue for the extremities - hands, wrists, ankles and feet). The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.

² In Europe, the SAR limit for mobile devices used by the public is 2.0 watts/kg (W/kg) averaged over 10 grams of tissue for the body or head (4.0 W/kg averaged over 10 grams of tissue for the extremities - hands, wrists, ankles and feet). The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.

The long-term characteristics or the possible physiological effects of Radio Frequency Electromagnetic fields have not been evaluated by Underwriters Laboratories Inc. (UL)

accordance with CENELEC and FCC testing procedures using standard operating positions with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR of the device while operating can be below the maximum value. Before a device is available for sale to the public, it is tested to confirm compliance with the guidelines. The tests are performed in positions and locations (for example, worn on the body) that conform to a uniform testing methodology determined by an expert standards body. The highest SAR level recorded from this product was 0.93W/kg, which was below the uncontrolled (that is, general population) limit. While there may be differences between the SAR levels of various devices and at various positions, they all meet the governmental requirements for safe exposure.

PLEASE NOTE THAT MODIFICATIONS TO THIS PRODUCT MODEL COULD CAUSE DIFFERENCES IN THE SAR VALUE FOR LATER PRODUCTS; IN ALL CASES, PRODUCTS ARE DESIGNED TO BE WITHIN THE GUIDELINES.

Antenna Care

Use only the supplied, or an approved replacement, antenna. Unauthorized antennas, modifications, or attachments could damage the device and may violate government regulations. When using remote mount antenna, mount antenna at least 20 cm away from the user. Also when using a remote mount antenna in order to reduce potential radio interference to other users, the antenna type and its gain should be chosen so that the equivalent isotropically radiated power (EIRP) is not more than that permitted for successful communication.

Device Operation and Service

Normal Operation

Hold the device as you would hold any other mobile device while sending a text (SMS) message. Ideally, the antenna should be vertical to the ground and have a clear unobstructed view of the sky.

Tips on Efficient Operation

For your device to operate most efficiently:

- Make sure the antenna has a clear unobstructed view of the sky.
- Do not touch the antenna unnecessarily when the device is in use.
- Contact with the antenna affects transmission/reception quality and may cause the device to operate at a higher power level than otherwise needed.
- Do not wear the device on your body while sending messages. Wearing the device on the body can interfere with proper device operation, since the antenna requires a clear unobstructed view of the sky to access the Iridium® satellite network.

Service

Only qualified service personnel should perform repairs to the GeoPro device. Disconnect the power supply cables from the computer or electrical outlet and refer the GeoPro device or charging accessory for service to qualified service personnel if any of the following situations occur:

- the power supply cord, plug, or connector is damaged

- the GeoPro device has been damaged in any way
- the GeoPro device does not operate normally by following the instructions in the user documentation
- the GeoPro device exhibits a distinct change in performance

Do not attempt to disassemble the GeoPro device.

Failure to observe all safety instructions contained in the user documentation for the GeoPro device will void the Limited Warranty and might lead to suspension or denial of services to the offender, legal action, or both.

Batteries



Warning! The GeoPro *Messenger* device contains a removable lithium-ion battery. Do not dispose of either the GeoPro device or the lithium-ion battery in a fire. Dispose of the lithium-ion battery in accordance with the laws and regulations in your area governing disposal of such cell types.

The lithium-ion battery might present a fire or chemical burn hazard if mistreated. Do not disassemble, crush, or puncture the lithium-ion battery. Do not heat the lithium-ion battery above 140°F (60°C). Do not allow metal objects to contact the battery terminals.

Use only the lithium-ion battery that GeoPro specifies for use with your particular GeoPro *Messenger* device. Using any other lithium-ion battery might invalidate any warranty provided with the GeoPro device and might present a risk of fire or explosion.

All batteries can cause property damage, injury or burns if a conductive material, such as jewelry, keys or beaded chains, touches exposed terminals. The material may complete an electrical circuit and become quite hot. To protect against such unwanted current drain, exercise care in handling any charged battery, particularly when placing it inside your pocket, purse or other container with metal objects.

Battery usage by children should be supervised. If you have inserted an invalid lithium-ion battery, remove it immediately and insert the lithium-ion battery that GeoPro specifies for use with your particular GeoPro device model. Verify that the battery connectors align with the connectors on your GeoPro device.

Disposal

The GeoPro *Messenger* device should not be placed in household waste bins. Please check local regulations for information about the disposal of electronic products in your area.

Driving

Should the GeoPro *Messenger* device be used while driving, check the laws and regulations on the use of wireless devices in the areas where you drive. Always obey them. Many local governments prohibit the use of mobile devices while driving. Observe the standard guidelines when using your device while driving. Give full attention to driving—driving safely is your first responsibility. Pull off the road and park safely before sending or reading a text message or using your GeoPro device in any way.

Store your GeoPro *Messenger* device safely before driving your vehicle. If your vehicle is equipped with an air bag, do not place the GeoPro device or other objects above the air bag, or in the air bag deployment area to avoid potentially serious injury.

Electronic Devices

Most modern electronic equipment is shielded from RF signals. However, certain equipment may not be shielded against the RF signals from your wireless device.

Pacemakers

The Health Industry Manufacturers Association recommends that a minimum separation of six inches (6") be maintained between a handheld wireless device and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research.

Persons with pacemakers:

- Should ALWAYS keep the device more than six inches from their pacemaker when the device is turned ON
- Should not carry the device in a breast pocket
- Should turn the device OFF immediately if there is any reason to suspect that interference is taking place

Hearing Aids

Some digital wireless devices may interfere with some hearing aids. In the event of such interference, you may want to consult your hearing aid manufacturer to discuss alternatives.

Other Medical Devices

If you use any other personal medical device, consult the manufacturer of your device to determine if it is adequately shielded from external RF energy. Consult your physician to determine compatibility with your medical device.

Turn your GeoPro *Messenger* device OFF in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle.

You should also consult the manufacturer of any equipment that has been added to your vehicle.

Posted Facilities

Turn your device OFF in any facility where posted notices so require.

Aircraft

Airline regulations prohibit using your device while in the air. Check and comply with the policy of your airline regarding the use of your device while the aircraft is on the ground.

Blasting Areas

To avoid interfering with blasting operations, turn your device OFF when in a “blasting area” or in areas posted: “Turn off two-way radio.” Obey all signs and instructions.

Potentially Explosive Atmospheres

Turn your device OFF and do not remove your battery when you are in any area with a potentially explosive atmosphere. Obey all signs and instructions. Sparks from your battery in such areas could cause an explosion or fire resulting in bodily injury or even death.

Areas with a potentially explosive atmosphere are often, but not always, clearly marked. They include but are not limited to: fueling areas such as gasoline stations; below deck on boats; fuel or chemical transfer or storage facilities; areas where fuel odors are present (for example, if a gas/propane leak occurs in a car or home); areas where the air contains chemicals or particles, such as grain, dust, or metal powders; and any other area where you normally would be advised to turn off your vehicle engine.

Getting Started with Your GeoPro *Messenger*

Before You Begin

Contents of Your Package

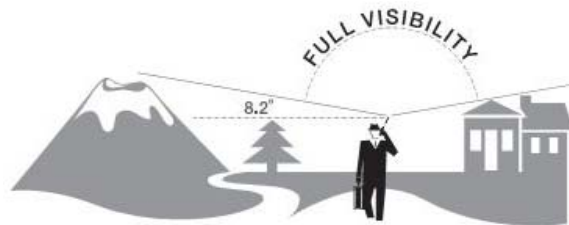
Your GeoPro *Messenger* package contains the following items:

- GeoPro *Messenger* (battery included)
- Mini-USB cable
- Belt holster
- AC charger
- GeoPro *Messenger* Quick Start Guide

Satellite Reception

The GeoPro *Messenger* operates most effectively when used outside, away from dense foliage, trees, tall buildings, or other items because it requires full and clear visibility of the sky (as shown) to acquire a GPS fix and transmit your messages over the Iridium® satellite network. This process should take less than 1 minute, but it may take several minutes if the line of sight is obstructed or the device has moved more than 500 miles since its last GPS fix.

NOTE: The GeoPro *Messenger* acquires the signal by powering the GPS and Iridium receivers separately. This process is designed to minimize power consumption and extend battery life, as well as to avoid interference between the GPS and Iridium signals.



GeoPro Messenger Overview

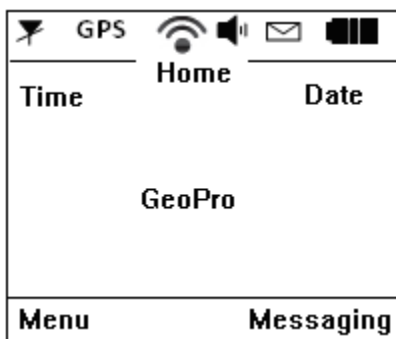


Figure 1: GeoPro Messenger Main Features

Use the softkeys and joystick to navigate through the menus. Pressing softkeys invokes functions that appear above each key, and vary depending on the menu used. The joystick allows scrolling through menus and making selections as follows:

- Move joystick left = Go back to previous screen
- Move the joystick left and hold for 3 seconds = Returns to the **Home** screen
- Move joystick right = Go to next menu level or acts as Select
- Move joystick down/up = Scroll menus; view additional menu options
- Press joystick straight down = Select the highlighted menu option

Home Screen



The Home screen is your entry point to the GeoPro Messenger. It consists of communication and power management icons at the top, time and date, and menus for access to the device functions at the bottom (see [Table 1](#)).

Table 1: GeoPro Messenger Icons

Icon	Description
	Iridium transceiver is OFF. This is the default device state for power management.
	Iridium transceiver is ON with real-time signal strength represented by the number of vertical bars. This is the device state while actively sending and receiving messages. This process is managed automatically by the device and requires no user intervention.
gps	GPS receiver is ON with real-time satellite acquisition status represented by the following: gps – lower case and steady, searching for GPS signal gps – lower case and flashing; the device has a 2D fix GPS – upper case and steady; the device has a 3D fix The receiver is only turned on when a new position is required for a message. The device is not transmitting on the Iridium network. To maximize power management, the receiver is turned on for the minimum time required to get a valid fix (3D). This process is managed automatically by the device and requires no user intervention.
	Tracking is ON.
	All audio alerts are OFF.
	Audio alerts are ON.
	New messages in Inbox.
	Messages queued in Outbox.
	Battery power indicator: 5 bars = fully charged.

Understanding the LEDs

There are three LEDs (Light Emitting Diodes) on your GeoPro device (see [Figure 1](#)) which will be off, on solid, or flashing as follows:

Power LED: OFF while the power is off.
FLASHING (approximately once every 5 sec) if the device is awake (i.e., the LCD display is on) or asleep (i.e., in power-save mode with the LCD display off).
FAST FLASHING (approximately once every 3 sec) if the device is in power-save mode but in a transmission wake-up cycle and communicating with the satellites. The LCD display is turned off.

Emergency LED: OFF during normal operation (no emergency is declared) or when device goes to sleep.
FLASHING when the user declares an emergency and continues to flash while the emergency is unconfirmed.
SOLID when an emergency is confirmed.

Message LED: OFF if there are no unread messages in the Inbox.
PERIODIC FLASHING (cycle of three fast blinks and then a pause) along with two audible alerts when a message goes into the Inbox.

NOTE: As long as the device is not asleep, the message LED will flash whenever there is an unread message in the Inbox and for any message which requires a user response or acknowledgement, such as Emergency declaration received, Emergency confirmation message received, and Check-in request received.

Waking Up Your GeoPro Messenger

After a period of non-use, your GeoPro Messenger device will go to sleep to conserve battery power. To wake up your device press the joystick down and hold until the screen lights up. Pressing the Emergency hardkey will wake up the device and send an emergency alert.

Powering On/Off Your GeoPro Messenger

IMPORTANT: Ensure that the device is properly charged before you start using it. For the antenna to pick up adequate signal, you must be in an open area free of overhead obstructions.

1. To power on the GeoPro Messenger, press the joystick straight down and hold for 3 seconds. The green power light illuminates to indicate that the device is ON. If unused, the device goes into sleep mode after a preset time to conserve battery power. When the device is in sleep mode, the green power light flashes. The device will wake up periodically to check for messages. If a message is to be transmitted, the power light flashes quickly; the display is still off. To bring the device out of sleep mode, press the joystick down until the screen lights up.

NOTE: To charge the battery, connect your GeoPro Messenger to a computer using the USB cable.

2. Once the GeoPro Messenger is powered on, the following message displays: *Would you like to set your field status to In Field?* For more information, refer to the [Setting Your Field Status](#) section. Setting the Field Status is an important feature of the GeoPro service as it will impact how the GeoPro Web Application interacts with your device.
3. To power off the GeoPro Messenger, from the Main Menu select **Power Off**. The following message displays: *Would you like to set your field status to Out of Field?* If you opt to set your field status to "Out of Field", the display indicates *Field status in Outbox. Wait until message sent or Power Off to turn off without sending message*. To power off, press the **Power Off** softkey. If you press the **Power Off** softkey without setting Field Status to Out of Field, you can set your Field Status to Out of Field from the **Device Manager** screen when you first log on. For more information, refer to the [Setting Your Field Status](#) section.

Synchronizing Your GeoPro Messenger Data

GeoPro Sync is an application that must be installed on your PC and enables you to synchronize the address book, message book and waypoints on your GeoPro Messenger with the Device Manager Web Application. For information on creating address books, message books, and waypoints, refer to the [Device Manager](#) section.

NOTE: When the device is synchronized, it is automatically placed into Out of Field status. Check-in schedules will no longer apply until the Enable Check-in schedule icon is clicked or device is reset to In Field status by the device user.

Installing GeoPro Sync

To install and configure the GeoPro Sync:

1. Open your web browser and go to: <https://app.geoprosolutions.com/syncclient/> or click **Help & Support** on the GeoPro Web Application and click on **Download Sync Client** to download it.
2. On the GeoPro Sync web page, click **Install**.
3. Click **Save File** to download the setup application. The file is downloaded to the download folder specified in your browser settings.
4. Double-click the **GeoPro Sync** file to initiate the installation.
5. Click **Install**. The application installs and launches automatically.

Synchronizing Contents

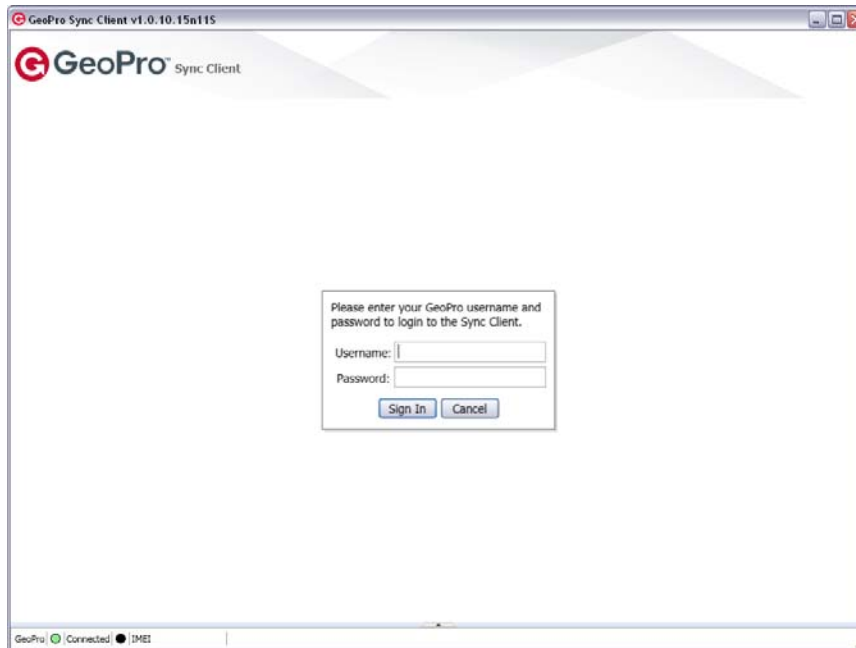
To synchronize your GeoPro *Messenger* data with the Device Manager Web Application:

1. Open the GeoPro Sync application.
2. Connect your GeoPro *Messenger* to the computer using the provided USB cable. A status message displays indicating 'Please connect the GeoPro device to your computer via USB.'

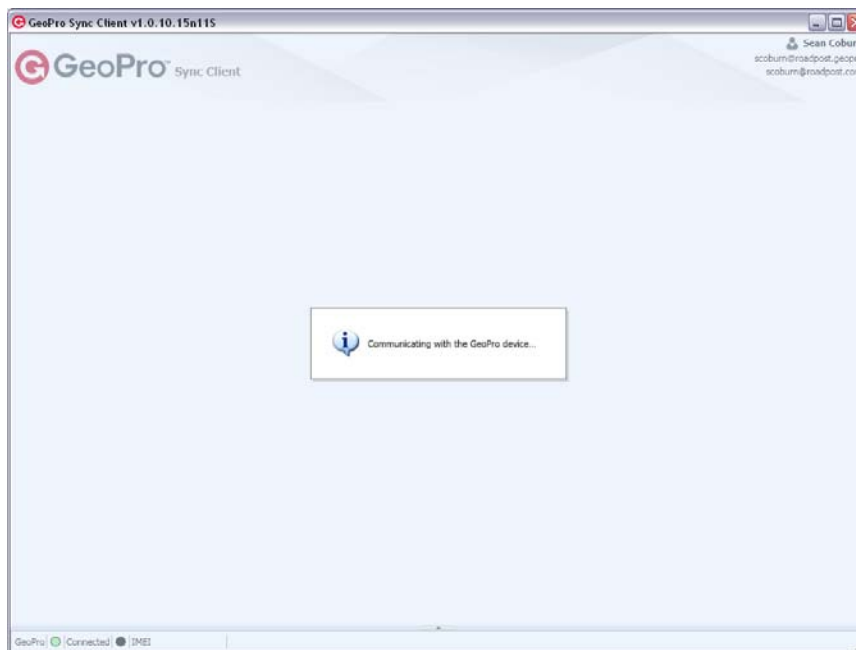


3. On the login screen, type your **Username** (format: [username@domain.com](#)) and **Password**.

NOTE: Use the same Username and Password you use to log in to the GeoPro Device Manager or the GeoPro Web Application.



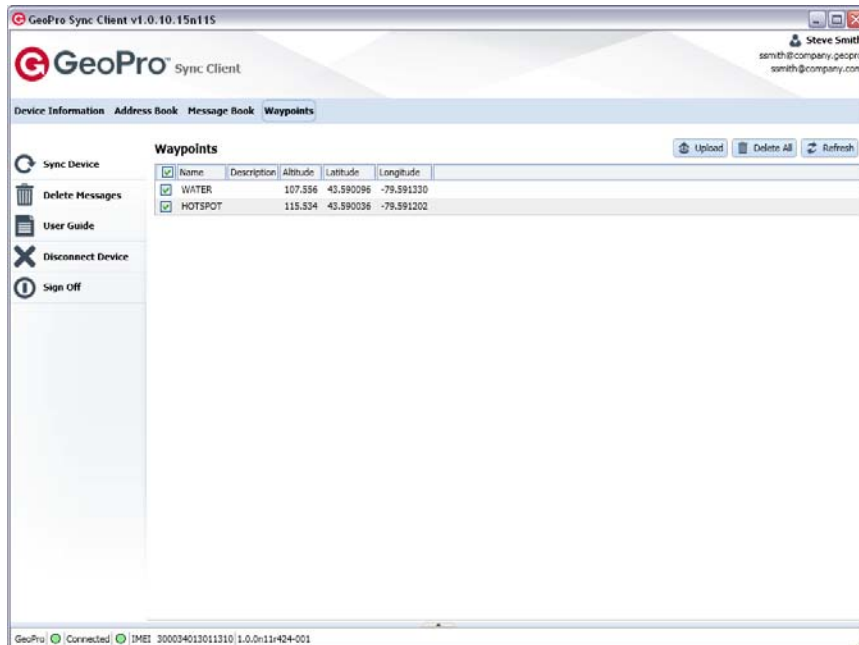
4. The GeoPro Sync application will automatically connect to the GeoPro *Messenger*. A status message displays indicating 'Communicating with the GeoPro device...'. The lower left pane will indicate when you are "Connected" and three tabs (Address Book, Message Book, and Waypoints) display in the upper right pane.



To synchronize all messages and waypoints, click the **Sync Device** button.



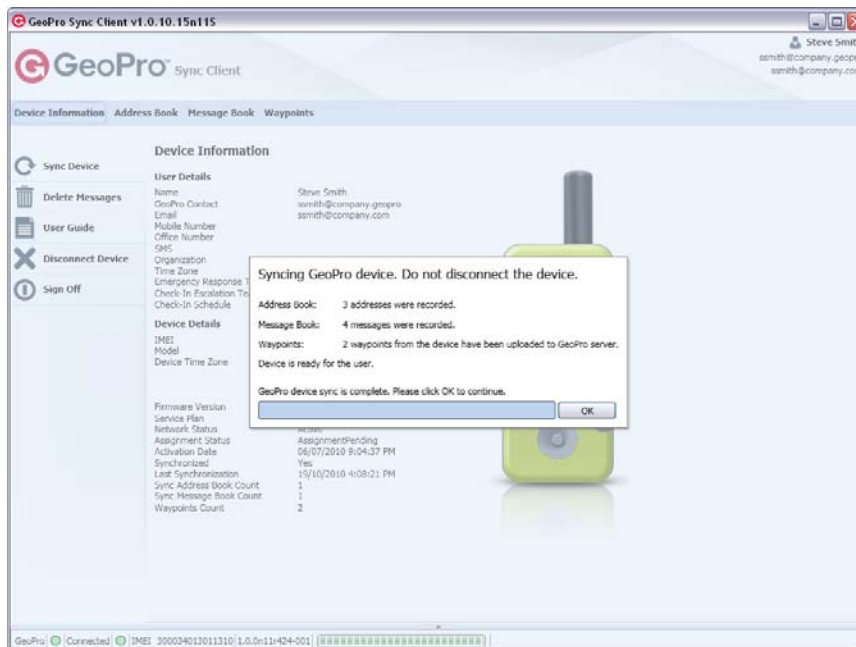
To share or delete waypoints created in Device Manager, on the **Waypoints** tab, click **Upload** GeoPro device waypoints or **Delete All** device waypoints.



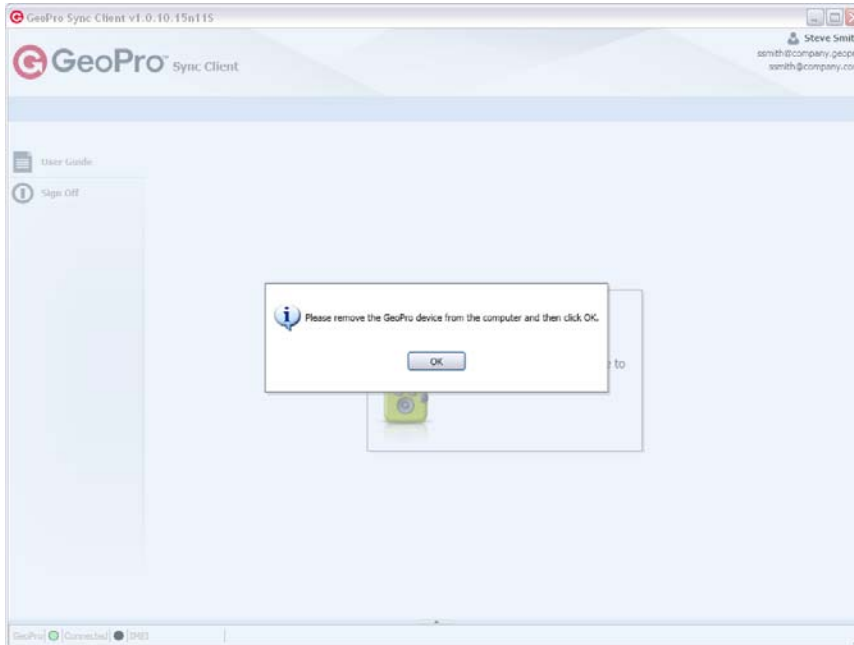
To erase messages located in all of the message boxes stored on the GeoPro *Messenger*, click the **Delete Messages** button. A confirmation message appears when done.



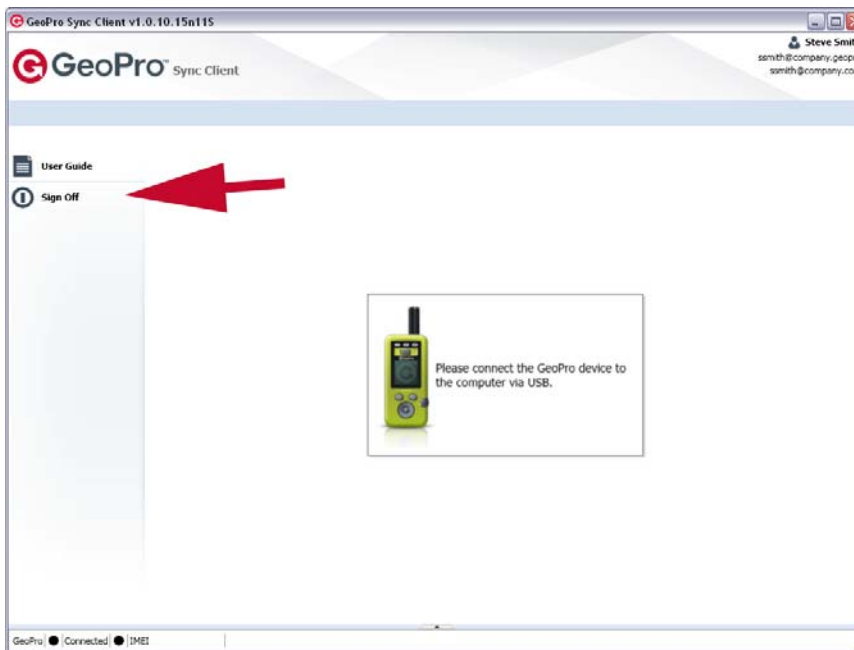
5. When data synchronization is complete, click the **OK** button.



A status message displays indicating 'Please remove the GeoPro device from your computer and then click OK.'. Disconnect your GeoPro *Messenger* from the USB cable.



6. Click **Sign off** to exit the GeoPro Sync application.



7. Restart (power on) the GeoPro *Messenger* for the configuration changes to take effect.

Using Your GeoPro *Messenger*

Using Menus

On the **Home Screen**, there are two softkey options: **Menu** and **Messages** (see [Figure 1](#)). Press the left softkey, or press the joystick, to invoke the **Main Menu** screen. Press the right softkey to invoke the **Messaging** screen.

Selecting the **Menu** softkey from the **Main Menu** displays all the available services. Use the joystick to scroll to the desired menu option until it is highlighted, and then press the joystick to select the highlighted item. The **Main Menu** contains the following options:

- **Messaging** – address, compose and send a message (free form or predefined message), view inbox, drafts or outbox
- **Check-in** – send a check-in message or temporarily suspend Check-in schedule
- **Emergency** – declare (activate) an emergency as an alternative to pressing and holding down the emergency button for three (3) seconds or cancel an existing emergency
- **Field Status** – set your field status to 'In' or 'Out'
- **Location Utilities** – get your current location, send a See-Me message, turn Tracking on/off and manage Waypoints.
 - **Current Location** – turn on GPS to get a real-time position fix
 - **Tracking** – turn tracking on/off and set your tracking reporting interval
 - **See-Me** – create a See-Me text message (addressee, current location, text message) that shares your current location with people who do not have access to the GeoPro Web Application
 - **Waypoints** – create a new waypoint (location with text description), view a list of saved waypoints or delete a waypoint
 - **Coordinate Format** – select which coordinate system to use to display the GPS coordinates on the device
- **Unit Settings** – set Time & Date preferences, Event Alerts preferences (Audio/LED on/off), Backlight (on/off/delay period), Contrast, view Battery Remaining information, select an Iridium Option to set how the Iridium modem operates, Clear Memory function, Device information (Device IMEI and Firmware), User Information (name & contact information), and Restore Defaults.
- **Power Off** – power off the GeoPro *Messenger*

Working with Messages

The GeoPro *Messenger* device enables you to exchange messages with mobile phones, email and other GeoPro *Messenger* devices. You can send messages to multiple addresses at once, use a message template or compose a free text using the on-screen keyboard.

Messaging is not an email system; it is similar to text messaging using mobile phones. The maximum message length is 160 characters, including spaces and punctuation. Although the GeoPro *Messenger* features an on-screen keyboard, it also simplifies the process by allowing user-specified predefined addresses and messages.

Normally, sent messages are transmitted over the air immediately. Occasionally, a message may be queued for transmission, while the device attempts to communicate with the satellite network. In these cases, queued messages remain in the Outbox, allowing you to review messages that have not yet reached their intended recipients. If the message is not transmitted, most likely due to lack of visibility to the satellite, the GeoPro Messenger will automatically attempt to send the message two (2) additional times. If it is not successful, the message will remain in the Outbox and you can either resend it manually or leave it to the device to reattempt during its wake-up cycle when it acquires the Iridium signal.

Working with the Address Book

The address book is populated when the GeoPro *Messenger* is synchronized with your Device Manager address book. For more information, refer to the [Using Your Address Book](#) section. For more information on the synchronization process, refer to the [Synchronizing Your GeoPro Messenger Data](#) section.

To select a contact in your address book:

1. Press the **Messages** softkey (see [Figure 1](#)) on the **Home** screen, or select **Messaging** from the **Main Menu**. The **Messaging** screen appears.
2. Scroll down to select **Address Book**. The **Address Book** screen appears, listing contacts that already exist in your address book.
3. Select a contact from the list. You can choose to compose one of the following message types:
 - **Email** (format: *contact@company.com*)
 - **GeoPro** (format: *contact@company.geopro*)
 - **SMS** (format: *mobilenumber@carrier.com*)

Composing a Text Message

Messages and addresses can be selected from a predefined list or composed free-hand using the on-screen keyboard. A predefined message can also have free-text appended to it as long as the total message length is 160 characters or less.

To compose a text message:

1. Press the **Messaging** softkey (see [Figure 1](#)) on the **Home** screen, or select **Messaging** from the **Main Menu**. The **Messaging** screen appears.
2. Select **Compose** from the **Messaging** menu.
3. On the **Select the Recipient** screen:
 - To enter a recipient not in your address book, using the on-screen keyboard, select **(Type Address)**. This will take you to an on-screen keyboard where you can type the address. When you have entered the address, press **Done**.
 - To send a message to a recipient in your address book, select the recipient from the list, and then select the address (**Email**, **GeoPro**, or **SMS**) that you want to use.
4. On the **Send To** screen, you will see a list of addresses that you are sending this message to. Choose one of the following options:
 - To add an additional contact to this message, select **Add Address**.

- To remove a recipient, select the contact and then press the **Remove** softkey.
 - To compose the message text, press the **Compose** softkey.
5. On the **Message Text** screen:
 - To send a predefined message created in Device Manager, select **Choose from Msg Bk** and then select a message from the list on the **Message Book** screen.
 - To append more text to a predefined message, on the **Message Text** screen, scroll down the menu and select **Enter More Text**.
 - Type the additional text using the on-screen keyboard and when done press the **Options** softkey to return to the **Message Text** screen.
 - To type a text message using the on-screen keyboard, select **Enter Free Text**. Use the joystick to select letters. Press **Options** when finished. Messages are limited to 160 characters.
 6. To send your message, scroll and select **Send**.
 7. When sending a message, a confirmation screen appears informing you that the message is added to your Outbox. After a few seconds the display returns to the **Home** screen.

Working with the Inbox

To access a message in your Inbox:

1. Press the **Messages** softkey (see [Figure 1](#)) on the **Home** screen, or select **Messaging** from the **Main Menu**. The **Messaging** screen appears.
2. Select **Inbox**. The screen either displays a list of messages or is *Empty* to indicate that there are no messages.

Reading Messages

To read a message, scroll and **Select** the message in the Inbox using the joystick. The message opens in a new screen. The softkeys are **Forward** and **Reply**; to go back to the message list in the Inbox, click the joystick to the left.

Deleting Messages

To delete a message:

1. Select the message in the Inbox, and then select **Delete**.
2. Press the **Delete** key to proceed.

Replying to Messages

To reply to a message:

1. Select the message in the Inbox using the joystick.
2. Press the **Reply** softkey. The **Send To** screen appears.
3. Press the **Compose** softkey.
4. Select a predefined message from the message book (**Msg Bk**), or select **Enter Free Text** to compose the message (see [Composing a Text Message](#)).

Forwarding Messages

To forward a message:

1. Select the message in the Inbox using the joystick, and then press the **Forward** softkey. The **Select the Recipient** screen appears.
2. Select **Type New Address** to enter a new recipient, or select an existing recipient from the **Address List** menu.
3. Press the **Compose** softkey. The **Message Text** screen appears.
4. Select a predefined message from the message bank, or select **Enter More Text** to add to the existing message.
5. To send your message, scroll and select **Send** from the menu using the joystick. The display indicates that the message is being sent, and after a few seconds returns to the **Home** screen.

Working with Draft Messages

1. Press the **Messages** softkey (see [Figure 1](#)) on the **Home** screen, or select **Messaging** from the **Main Menu**. The **Messaging** screen appears.
2. Select **Drafts**. The **Drafts** screen displays messages that have been composed but not yet sent to the GeoPro Web Application.
3. Choose one of the following options:
 - To view a draft message, select it in the list and press the joystick. The message header and body display on the screen. You can choose to **Send** the message or **Edit** it.
 - To edit a draft message, select it in the list and then press the **Edit** softkey. Edit the message text and send it to the selected recipient.
 - To delete a draft message, select it in the list and then press the **Delete** softkey. Press the **Delete** softkey again to confirm the deletion. (Note the **Delete** softkey is now on the other side on purpose, to avoid accidentally double-clicking the same softkey.)

Working with Outbox Messages

1. Press the **Messages** softkey (see [Figure 1](#)) on the **Home** screen, or select **Messaging** from the **Main Menu**. The **Messaging** screen appears.
2. Select **Outbox**. The **Outbox** screen displays messages that are queued to be sent by the GeoPro *Messenger*.
 - Messages currently being sent are indicated by << prefacing the message. You cannot delete or cancel a message while it is being sent (<<).
 - Failed messages are indicated by X prefacing the message. You can choose to **Resend** a failed message or **Delete** it.
 - Messages without an icon are queued for sending and are waiting for earlier messages to be successfully sent or to fail. You can choose to **Delete** a queued message prior to being sent.

Working with Sent Messages

3. Press the **Messages** softkey (see [Figure 1](#)) on the **Home** screen, or select **Messaging** from the **Main Menu**. The **Messaging** screen appears.
4. Select **Sent Messages**. The **Sent Messages** screen displays messages successfully transmitted to the GeoPro Web Application.
5. To view a sent message, select it in the list and press the joystick. The message header and body display on the screen. You can forward a sent message by pressing the **Forward** softkey.

Sending a Check-in Message

The GeoPro Web Application enables check-in rules to be established for remote personnel. Check-ins can be on demand, scheduled at specific times (for example, 9 am, 12 pm, 5 pm) or scheduled on an interval basis (for example, every 3 hours). These rules are configured by your administrator in the GeoPro Web Application. As a field user, you will automatically be reminded to check-in, if you have missed your check-in.

1. Press the **Menu** softkey (see [Figure 1](#)).
2. Select **Check-In** from the **Main Menu**. The **Check-In** screen appears.
3. Select **Send Check-In** from the list.
4. Press the **Send** softkey to send the check-in message.

NOTE: If a check-in reminder appears on the screen, press the **Send** softkey to send the check-in. You will receive a check-in reminder at your designated check-in time or interval.

Suspending the Check-in Schedule

A check-in schedule requires checking in periodically. However, there may be occasions when you cannot respond according to the schedule. For this purpose, you can select a predefined check-in suspension period.

1. Press the **Menu** softkey (see [Figure 1](#)).
2. Select **Check-In** from the **Main Menu**. The **Check-In** screen appears.
3. Select **Set Suspension**. The **Set Suspension** screen displays.
4. Select the suspension time interval from the list (from 30 minutes to 12 hours) and press the **Select** softkey.
5. A message is sent to the GeoPro Web Application, setting the suspension time. A confirmation message displays for a few seconds, and then returns to the Home Screen.

Last Check-in

The Last Check-in option allows you to see the time of the last successful check-in sent from your device. The display is blank if you have not yet sent a successful check-in message.

1. Press the **Menu** softkey (see [Figure 1](#)).
2. Select **Check-In** from the **Main Menu**. The **Check-In** screen appears.

3. Select **Last Check-in**. The **Last Check-in** screen displays.
4. Press the **Back** softkey to return to the **Check-in** menu screen.

Setting the Emergency Mode

The Emergency service enables you to alert your predefined escalation contacts when you are in distress. Once you trigger an Emergency via the dedicated **Emergency** button, automatic position reports will be sent to the GeoPro Web Application and alerts will be triggered to your escalation contact list. While in emergency mode, all of your other GeoPro services will remain functional.

To activate the emergency mode using the **Emergency** button:

1. Lift the emergency button cover (see [Figure 1](#)) and press and hold the **Emergency** button for 3 seconds. The red Emergency LED will flash, indicating that the emergency message is awaiting confirmation. A confirmation message is sent to the device from the GeoPro Web Application and the red flashing LED turns to solid red.
2. Additionally, the GeoPro Web Application prompts you to confirm the emergency. Press **Yes** to confirm the emergency, or press **Cancel** to cancel the emergency. You will continue to be able to exchange messages with the escalation and response teams.

NOTE: The confirmation message is received at the device in about five minutes.

To declare or cancel the emergency mode using the display:

1. From the **Home** screen press the **Menu** softkey (see [Figure 1](#)).
2. Select **Emergency** from the **Main Menu**. The **Emergency** screen appears with these options:
 - **Declare Emergency** – highlight the **Declare Emergency** option and press the **Select** softkey to set the device in emergency mode. The display indicates that emergency mode is set and the red emergency light starts to flash. Click **OK** to exit.
 - **Cancel Emergency** – highlight the **Cancel Emergency** option and press the **Select** softkey to cancel an emergency. Press the **Yes** softkey to confirm. A message is sent to the GeoPro Web Application administrator and response teams, and the device reverts to normal operation mode. After a brief confirmation message on the display, the device returns to the **Home** screen.

IMPORTANT: During Emergency mode the tracking interval is set to 5 minutes and cannot be changed even through the Tracking menu.

Setting Your Field Status

Field status communicates your current operational status to the GeoPro Web Application. When you are ready to start or finish using your GeoPro *Messenger*, you must set your field status. When your field status is set to 'In', the check-in schedule defined in the GeoPro Web Application will automatically be applied. Your field status can be set during the power cycle or via the Field Status menu.

NOTE: While Field Status is set to "Out", any message sent from the Web Application is queued and will **not** be received by the device user until the device user initiates a message (event) from the device, or changes Field Status to "In".

To set field status during the power cycle:

- When powering on the GeoPro *Messenger*, you will be presented with an option to set your **Field Status**.
 - If you select **Yes**, the device will set your field status to 'In' and transmit a message to the GeoPro Web Application.
 - If you select **No**, the device will not set your Field Status and will load the **Home** screen.

To set field status from the Field Status menu:

1. Press the **Menu** softkey (see [Figure 1](#)).
2. Select **Field Status** from the **Main Menu**. The **Field Status** screen appears.
 - To set your field status to 'In', press the **In** softkey.
 - To set your field status to 'Out', press the **Out** softkey.

NOTE: It is important to set your field status to 'Out' when powering your device off to ensure that your check-in schedule is suspended automatically and the GeoPro Web Application does not escalate missed check-ins.

3. A message is sent to the GeoPro Web Application indicating your field status. The display confirms your message was sent and after a few seconds returns to the Home screen.

NOTE: To successfully set your Field Status, you must have a full and clear visibility of the sky to successfully transmit your status message over the Iridium network. This process should take less than 1 minute, but it may take several minutes if the line of sight is obstructed.

Accessing Location Utilities

From the **Home** screen press the **Menu** softkey (see [Figure 1](#)). Scroll down to select **Location Utilities** from which you can view your current location information, set tracking on or off, send a See-Me, or create waypoints.

Displaying the Current Location

To display your current location based on GPS satellite information, you must have direct line of sight to the sky.

1. Press the **Menu** softkey and select **Location Utilities** from the **Main Menu**. The **Location Utilities** screen appears.
2. Select **Current Location**. Based on the GPS data, the following information displays: your current date, time, and geographical coordinates (latitude, longitude, altitude, speed, course, vertical velocity, the number of GPS satellites used to create a position, and HACC – a measure of the accuracy of the GPS data; a value of 20 or less provides an accurate reading).

Setting Up Tracking

The GeoPro *Messenger* device can be configured to automatically send regular position reports to the GeoPro Web Application at predefined intervals. This service will show your movement over time in the GeoPro Web Application.

From the **Location Utilities** screen select **Tracking**. The **Tracking** screen appears.

- To turn tracking off, select the **Off** option.

- To set tracking **On**, **select** the reporting interval from the list of predefined intervals (from 2 minutes to 1 day). Press **Select** to **set** the tracking interval or confirm the reporting rate change and return to the **Home** screen.

IMPORTANT: If the device is in emergency mode, the tracking interval is set to 5 minutes and cannot be changed, even from the **Tracking** screen.

Creating and Sending a See-Me

See-Me enables you to share your location with people who do not have access to the GeoPro Web Application. When the GeoPro Web Application receives the See-Me message from your device, it will forward the message to the SMS or Email address along with a link that will display your current location to the recipient without them having to login to the GeoPro Web Application.

1. Select Location Utilities from the Main Menu.
2. Select **See-Me** from the **Location Utilities** menu. The **Select the Recipient** screen appears.
3. Select **Type Address** to enter a new recipient using the on-screen keyboard, or select an existing recipient from the list.
4. On the **Select Address** screen, select the message type (**Email** or **SMS**) that you want to use. To add more addresses select **Add Address**.
5. On the **Send To** screen press the **Compose** softkey.
6. Enter the text of the See-Me message and then press the **Next** softkey.
7. To send your message, select **Send** from the menu using the joystick. The message is added to your outbox and a confirmation displays for a few seconds before returning to the **Home** screen.

Creating and Sending a Waypoint

Waypoints enable you to save the GPS co-ordinates of a specific field location, write a description about that location and save or share that information with the GeoPro Web Application. This allows you to easily share field information with colleagues. If you choose to save the waypoint, you will be able to download the waypoint using the GeoPro Sync application (see [Synchronizing Your GeoPro Messenger Data](#)) to the GeoPro Web Application.

1. Press the **Menu** softkey (see Figure 1).
2. Select **Waypoints** from the **Location Utilities** menu. The **Waypoints** screen appears.
 - To create a new waypoint, select **New Waypoint**. The device displays the GPS data, if available.
 - To select an existing waypoint, select **List Waypoints**. Select a waypoint from the **Waypoints** list.
3. When a valid fix is acquired, press the **Select** softkey.

NOTE: Getting a valid GPS fix should take less than 1 minute if the line of sight to the sky is obstructed.

4. Compose a description for the waypoint.
5. Press the **Add** softkey.

6. Press **Send** to send the waypoint. A message is sent to the GeoPro Web Application, indicating the new waypoint or press the **Store** softkey.

NOTE: If the waypoint is stored, it can be uploaded to the GeoPro Web Application later during a synchronization process using the GeoPro Sync Client.

7. The display confirms the waypoint was sent and returns to the **Home** screen.

Selecting the Coordinate System Format

You can select how GPS coordinates are displayed on your device including: Decimal Degrees (default), USNG (NAD83), or UTM (WGS84). To change how GPS coordinates are displayed:

1. Select **Location Utilities** from the **Main Menu**.
2. Select **Coordinate Format** from the **Location Utilities** menu.
3. From the **Coordinate Format** screen scroll and select the desired coordinate format radio button.
4. Move the cursor to the left to return to the Location Utilities screen.

Using Unit Settings

Unit settings allow users to set time and date formats, audio and LED alerts, backlight, contrast, the Iridium modem performance, to view battery remaining, and unit and user information.

To access the unit settings:

1. Press the **Menu** softkey (see Figure 1).
2. Select **Unit Settings** from the **Main Menu**. The **Unit Settings** screen appears.
3. Select one of the following unit settings:
 - **Time & Date** – set time zone, along with time and date formats
 - **Event Alerts** – set audio (message waiting, emergency, low power) and LED (message waiting, power) alerts
 - **Backlight** – set backlight to always on, always off, or off after a specified period
 - **Contrast** – adjust the display contrast moving the joystick left-right
 - **Battery Remaining** – view the remaining-capacity percentage based on the milli-Amp hours (mAh) remaining and the corresponding estimated number of messages supported by the remaining mAh
 - **Iridium options** – select **Test iridium** to check the Iridium signal strength; select **Iridium Mode** to either set the Iridium modem to be on **Continuous** or in **Power Save** mode (default)
 - **Clear Memory** – clear messages, waypoints, GPS data, or all messages from the device's memory. (Note that if there are messages in the Outbox in the process of being sent, the message "The Outbox cannot be cleared because a message is currently being sent" displays.)
 - **Device Information** – displays IMEI, firmware, and bootloader information
 - **User Information** – displays the current user name
 - **Restore to Defaults** – restores the device to factory default settings. Note that this action cannot be undone.

Powering Off the Device

1. Press the **Menu** softkey (see [Figure 1](#)).
2. Scroll and select **Power Off** from the menu using the joystick. The **Power Off** screen appears.
3. The LCD displays *Would you like to set your field status to Out of Field?*
4. Press the **Yes** softkey to set field status to Out of Field.
5. Press the **Power Off** softkey to power off or press the **Cancel** softkey to return to the **Home** screen.

For more information, see [Powering On/Off Your GeoPro Messenger](#)

Device Manager

Overview

The Device Manager portion of the GeoPro Web Application refers to the user interface that you access as a GeoPro *Messenger* user to administer your device. Within the Device Manager, you can manage predefined message templates, your address book, and waypoints that have been uploaded from your device, and also view your historical usage and position reports.

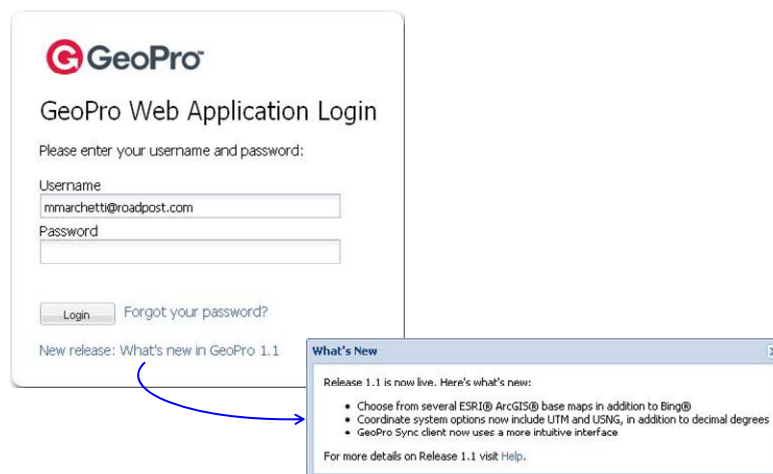
NOTE: The Device Manager interface only allows you to view and manage your own usage and device. To see other GeoPro users, you need to be a GeoPro Administrator; only GeoPro Administrators can access the GeoPro Web Application Admin Center.

Logging In

To log in to the **Device Manager**:

1. Enter the following URL in your browser address field: <https://app.geoprosolutions.com>.

Note that the log in screen provides a link to “What’s New” with the GeoPro application; this link is available for a limited time following an update to the GeoPro application.



2. Enter your **Username** and **Password**, and then click **Login**. As a non-administrator, the GeoPro Web Application launches your Device Manager on the **Map** tab by default.

Your username is the email address to which you received your user ID and initial password sent to you during the on-boarding process. If you forgot your password, click the **Forgot Password?** button, enter you email address, and then click **Reset Password**. A new password will be sent to your email.

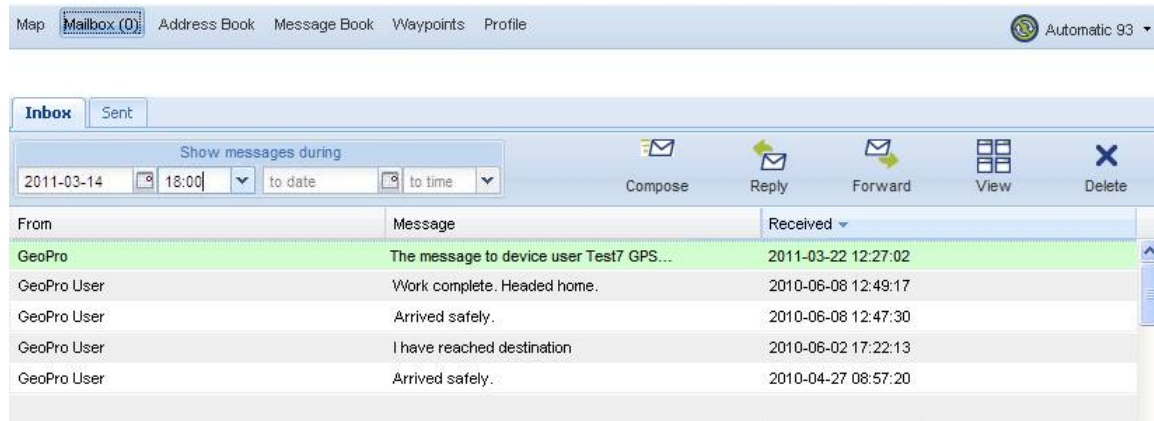
NOTE: It is important to set your field status to **Out of Field** when you are not actively in field with a device. This ensures that your check-in schedule is suspended automatically and the GeoPro Web Application does not escalate missed check-ins.

Once you log in to the **Device Manager**, you can choose to have the screen update automatically or manually. By default, the views update automatically every 60 seconds; you can change this in your **Profile** (see [Managing Your Account Profile](#)).

Using Your Mailbox

The Mailbox lets you create and send both free-form and predefined text messages to an email or SMS address, or to another GeoPro *Messenger* user. As well, you can view messages you have already sent or received.

NOTE: The maximum message length is 160 characters, including spaces and punctuation.



The **Mailbox** button appears with the number of new text messages shown in parentheses.



When you click the **Mailbox** button and open the **Mailbox**, the messages are considered read, so the number in parentheses changes to zero (0).



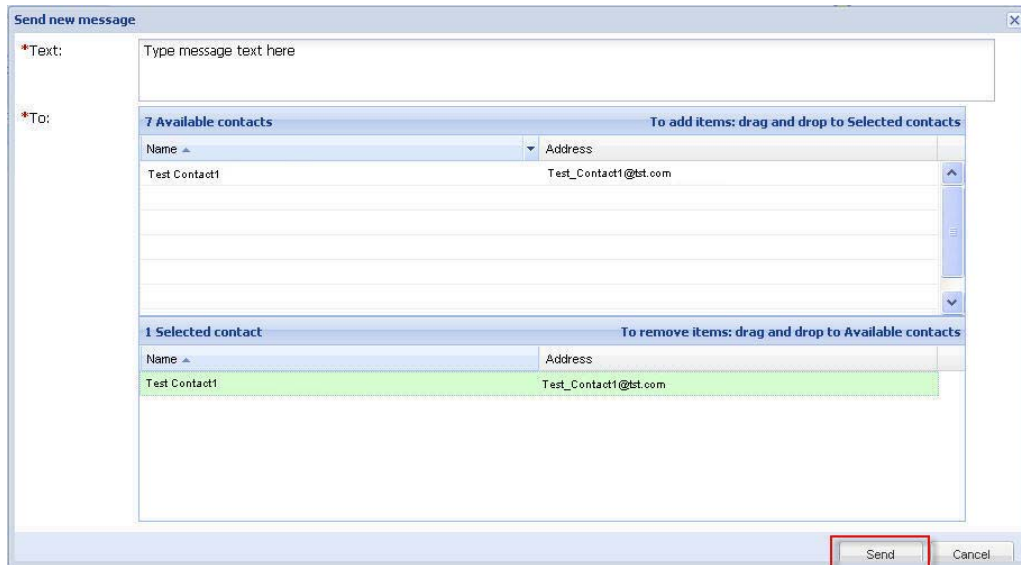
Inbox Tab

On the **Inbox** tab, select the “from” and “to” dates using the calendar  to display your messages for a specific period. You can **Compose**, **Reply**, **Forward**, **View**, and **Delete** messages.

Sending a Message

To compose and send a new message:

1. Click **Compose** . The **Send new message** dialog box appears.



2. Drag-and-drop a contact from the **Available contacts** area to the **Selected contact** area. To select multiple contacts, use the [Ctrl] or [Shift] keys.

NOTE: To remove a selected contact, drag-and-drop the contact from the **Selected contact** area to the **Available contacts** area.

3. Type your message in the **Text** field.
4. Click **Send**.

Replying to a Message

To reply to a message in your Inbox:

1. Select a message and click **Reply** . The **Reply to message** dialog box appears.
2. Type your reply message.
3. Click **Send**.

Forwarding a Message

To forward a message in your Inbox:

1. Select the message you want to forward and click **Forward** . The **Forward message** dialog box appears with the message you received typed in the **Text** field.
2. Drag-and-drop a contact from the **Available contacts** area to the **Selected contact** area. To select multiple contacts, use the [Ctrl] or [Shift] keys.
3. Click **Send**.

Viewing a Message

To view a message in your Inbox:

1. Select the message you want to view and click **View** . The **View Existing Text Message** dialog box displays the selected message, indicating the date and time when the message was sent.
2. Click **Close** to exit.

Deleting a Message

To delete a message in your Inbox:

1. Select the message you want to delete and click **Delete** .
2. Click **OK** to confirm.

Sent Tab

After composing and sending a message from your Inbox, the message appears on the **Sent** tab. On the **Sent** tab, select the “from” and “to” dates using the calendar  to display messages you sent during that date range. You can **Compose**, **Forward**, **View**, and **Delete** messages.

To compose and send a message from your Sent box:

1. Click **Compose** . The **Send new message** dialog box appears.
2. Drag-and-drop a contact from the **Available contacts** area to the **Selected contact** area. To select multiple contacts, use the [Ctrl] or [Shift] keys.

NOTE: To remove a selected contact, drag-and-drop the contact from the **Selected contact** area to the **Available contacts** area.

3. Type your message in the **Text** field.
4. Click **Send**.

To forward a message in your Sent box:

1. Select the message you want to forward and click **Forward** . The **Forward message** dialog box appears with the message you received typed in the **Text** field.
2. Drag-and-drop a contact from the **Available contacts** area to the **Selected contact** area. To select multiple contacts, use the [Ctrl] or [Shift] keys.
3. Click **Send**.

To view a message in your Sent box:

1. Select the message you want to view and click **View** . The **View Existing Text Message** dialog box displays the selected message, indicating the date and time when the message was sent.
2. Click **Close** to exit.

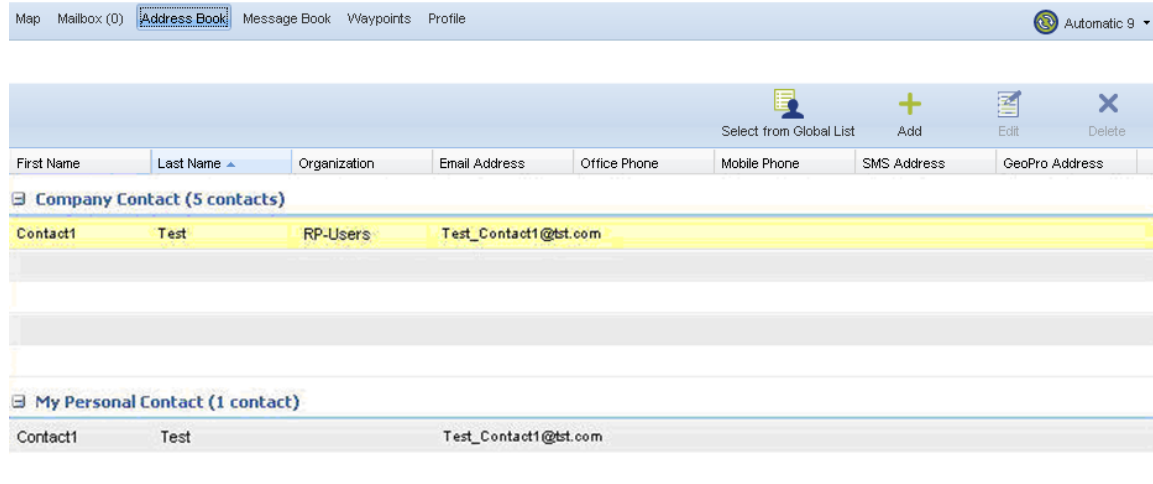
To delete a message in your Sent box:

1. Select the message you want to delete and click **Delete** .

2. Click **OK** to confirm.

Using Your Address Book

Use the Address Book to create your personal list of contacts that you will synchronize with your GeoPro *Messenger* for use in the field.

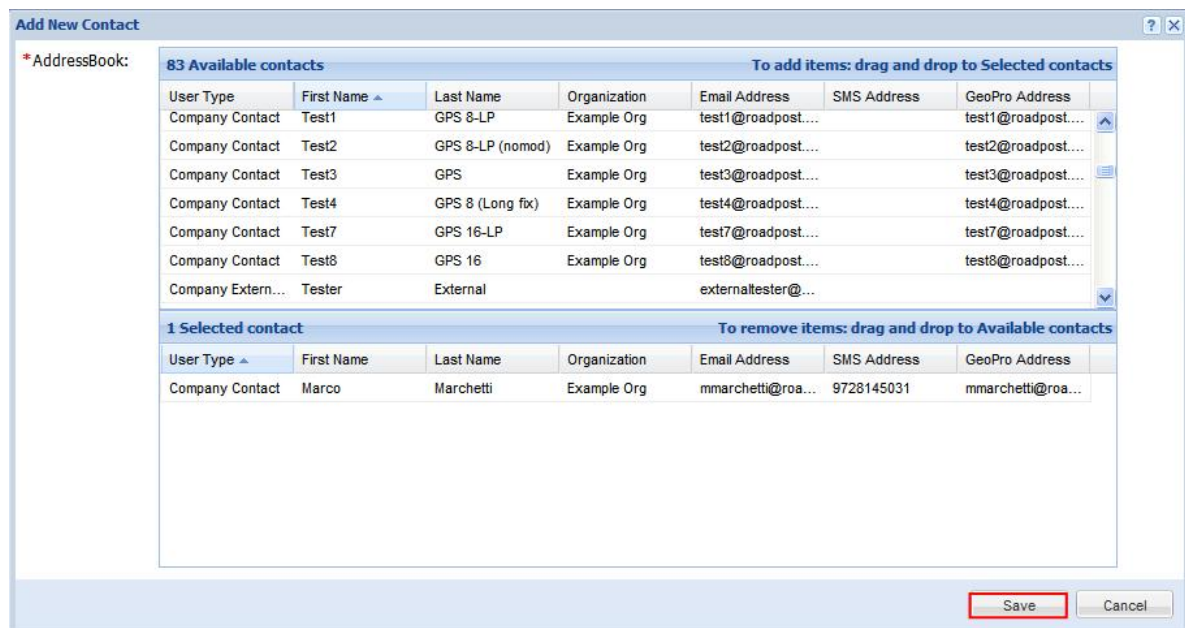


On the **Address Book** screen, you can **Select from Global List**, **Add**, **Edit**, and **Delete** contacts.

Adding a New Contact from the Global List

To add new contacts to your address book from the global list:

1. Click **Select from Global List** . The **Add New Contact** dialog box appears.



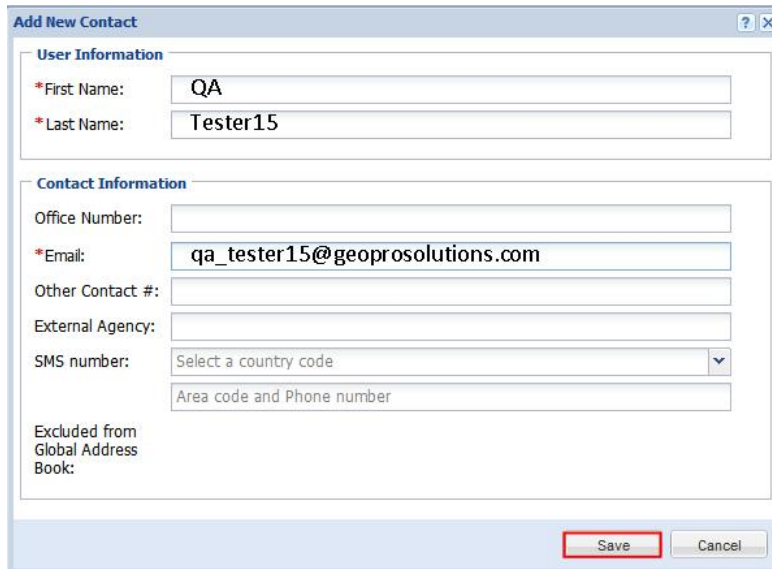
2. Drag-and-drop your chosen contact(s) from the **Available contacts** area to the **Selected contact** area. To select multiple contacts, use the [Ctrl] or [Shift] keys.

3. Click **Save**.

Adding a Personal Contact

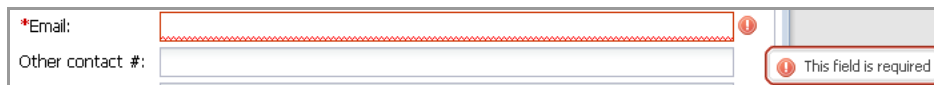
To add a personal contact not available in the global list:

1. Click **Add** . The **Add New Contact** dialog box appears.



The **Add New Contact** dialog box contains two sections: **User Information** and **Contact Information**. In the **User Information** section, the ***First Name:** field contains 'QA' and the ***Last Name:** field contains 'Tester15'. In the **Contact Information** section, the **Office Number:** field is empty, the ***Email:** field contains 'qa_tester15@geoprosolutions.com', the **Other Contact #:** field is empty, the **External Agency:** field is empty, the **SMS number:** field has a dropdown menu set to 'Select a country code' and an adjacent text field for 'Area code and Phone number'. At the bottom left, there is a checkbox labeled 'Excluded from Global Address Book:'. At the bottom right, there are **Save** and **Cancel** buttons.

2. Enter all User and Contact information. Mandatory fields are designated by a red asterisk, and are highlighted in red with an exclamation mark when selected.



A close-up of the ***Email:** field. The field is highlighted with a red border and a red exclamation mark icon. A red dashed line is visible below the field. To the right, a red box contains the text 'This field is required'.

3. **Save** the new contact. The new contact appears in the **My Personal Contact** list.

Editing a Personal Contact

NOTE: You can only edit your personal contacts, not any of the company contacts from the Global List.

To edit a personal contact:

1. Select the contact in the **My Personal Contact** list.
2. Click **Edit**  and update the existing information.
3. Click **Save**.

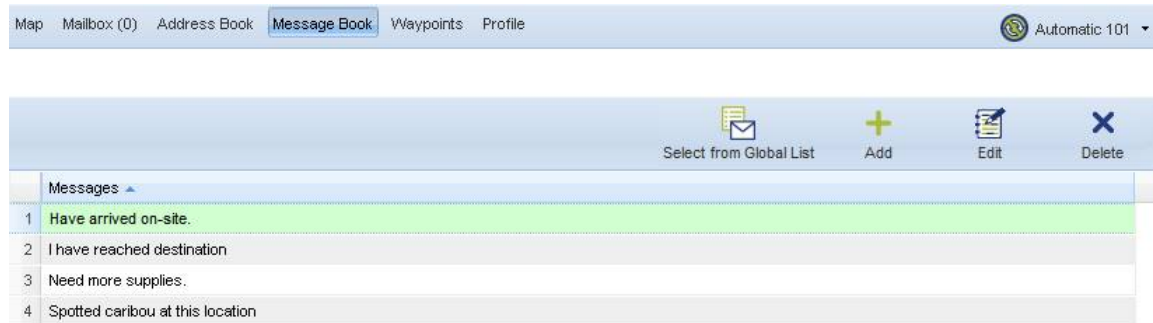
Deleting a Company or Personal Contact

To delete a company or personal contact:

1. Select the contact and click **Delete** .
2. Click **OK** to confirm.

Using Your Message Book

Predefined messages are created by your company's administrators and can be selected by GeoPro *Messenger* users. You can also create your own predefined messages; these are available for downloading only to your device. The messages are synchronized with your device, using the GeoPro Sync client, to facilitate routine messaging from your device and saving you the effort of typing the message using the device's on-screen keyboard.



On the **Message Book** screen, you can **Select from Global List**, **Add**, **Edit**, and **Delete** messages.

Selecting a Message from the Global List

To select messages from the global list:

1. Click **Select from Global List** . The **Add New Messages** dialog box appears.

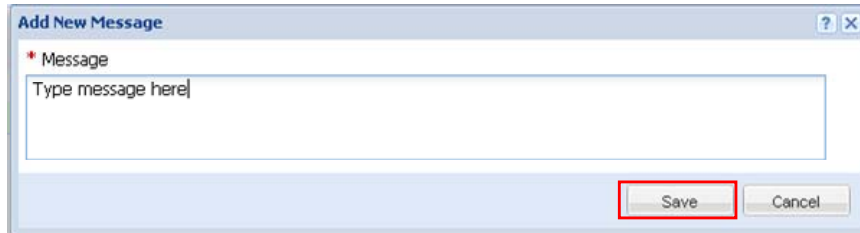


2. Select an existing message in the **Available messages** area and drag-and-drop it to the **Selected message** area. To select multiple messages, use the [Ctrl] or [Shift] keys.
3. Click **Save**.

Adding a New Predefined Message

To add a new predefined message:

1. Click **Add** . The **Add New Message** dialog box appears.



2. Type your new message and then click **Save**.

Editing a Message

To edit an existing message:

1. Select the message and click **Edit** . The **Edit Existing Message** dialog box appears.
2. Make the change to the message and then click **Save**.

Deleting a Message

To delete a message:

1. Select the message and click **Delete** .
2. Click **OK** to confirm.

NOTE: When you delete messages, you are removing them from the list of messages you plan to synchronize with your GeoPro *Messenger*. You can only delete messages you added to the list. The messages you obtained from the corporate Global List remain unchanged in the Global directory. Deleted messages you created are removed permanently.

Managing Your Waypoints

The Waypoints Service is an on-demand service that differs from “breadcrumbs” (location updates) because waypoints are permanent as an overlay on the GeoPro Web Application map. Waypoints have different icons, depending on the type, for example, a campsite or fuel depot.

Map	Mailbox (0)	Address Book	Message Book	Waypoints	Profile	Automatic 47
-----	-------------	--------------	--------------	-----------	---------	--------------

						
	Propose	Edit	Delete			

Waypoint Name	Waypoint Description	Waypoint Category	Location	Creator First Name	Creator Last Name
Private (1 waypoint)					
LOT	LOT		lat: 43.589585, lon: -79.59153;	Test	Contact1
Pending (1 waypoint)					
LOT	LOT		lat: 43.589585, lon: -79.59153;	Test	Contact2
Public (2 waypoints)					
	Hot Spring	Campsite	lat: 45.9054, lon: -77.56145, alt: 1000	Test	Contact5
LOT A		Diner	lat: 43.733438, lon: -79.704128	Test	Contact3
Rejected (1 waypoint)					
LOT B	LOT B (2)		lat: 43.589595, lon: -79.59152;	Test	Contact1
	BACK YARD 1		lat: 33.049608, lon: -96.77388;	Marco	Marchetti

A waypoint can be created using the GeoPro *Messenger* and sent to the Web Application either over-the-air (OTA) or through the synchronization process using the Sync Client.

The key information contained in a waypoint includes:

- Name
- Description
- Category
- Location
- Creator's first and last name

Proposing a Waypoint

You can use the Device Manager to propose waypoints for publication; that is, for an administrator to review. The administrator will either publish the waypoint (make it available for public viewing by any GeoPro user within your organization), or reject it (return it to you and make it private and only visible by you).

Waypoints that are sent OTA are automatically proposed for publishing and appear in the Administrator's **Pending Waypoints** screen.

All waypoints are considered private if uploaded through the GeoPro *Messenger* synchronization process. This means that the uploaded waypoints are visible in the Device Manager only to the GeoPro *Messenger* user who personally created them.

To propose a waypoint for publication:

1. Select a waypoint from the **Private** or **Rejected** list and click **Propose** .
2. Click **OK** to confirm. The waypoint is moved to the **Pending** list.

Editing a Waypoint

As a GeoPro *Messenger* user who created a waypoint that appears in the **Private** or **Rejected** list in your Device Manager, you can edit the following information:

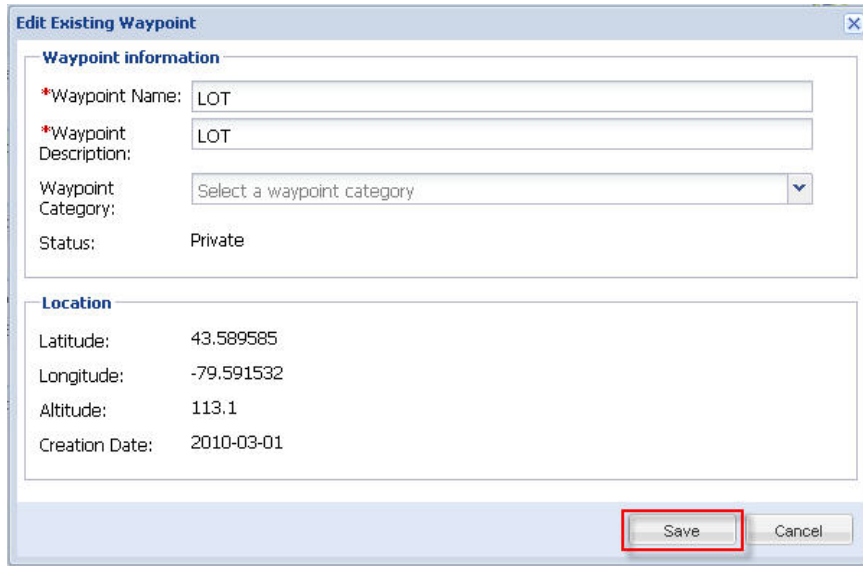
- Name

- Description
- Category (for example, campsite, fuel depot or diner)

NOTE: When you propose the waypoint, an administrator can also modify the information.

To edit a waypoint:

1. Select a waypoint from the **Private** or **Rejected** list and click **Edit** . The **Edit Existing Waypoint** dialog box appears.



2. Update fields in the **Waypoint information** area.
3. Click **Save**.

Deleting a Waypoint

As the creator of the waypoint, while it is in the **Private** or **Rejected** list and not pending for publication, you can delete the waypoint.

To delete a waypoint, select it from the **Private** or **Rejected** list and click **Delete** .

Viewing Your Usage

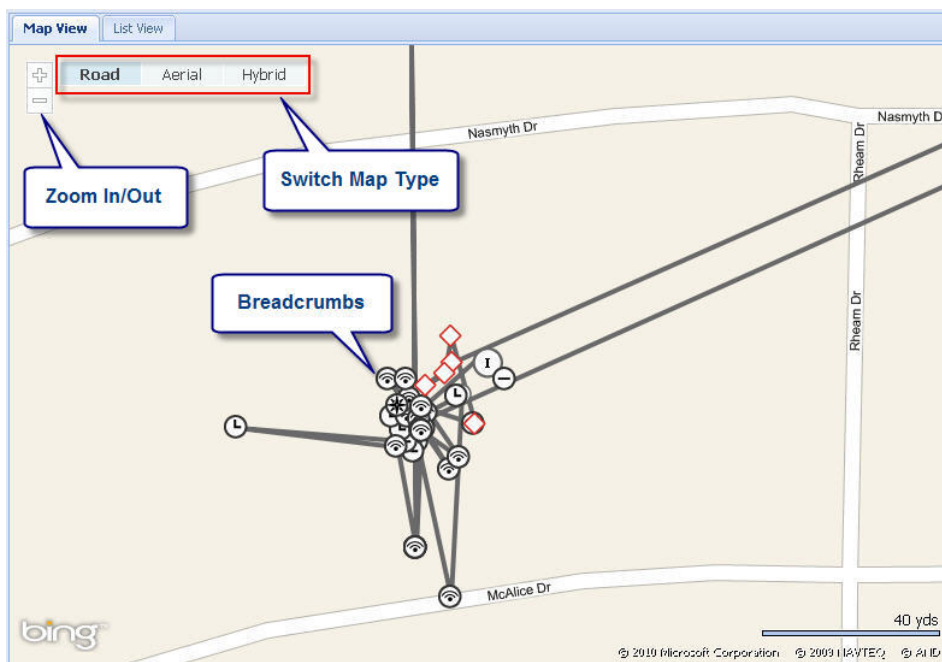
Using the Map View

You can select to view either the map (**Map View** tab) or a listing of all your events (**List View** tab).



The **Map View** displays a map of the world and allows you to view your personal tracking breadcrumbs. Icons on the map represent various types of breadcrumbs (e.g. tracking, check-in, emergency) and are based on the most recent GPS readings. The breadcrumbs that are automatically displayed on the map default to the last seven (7) days. You can view breadcrumbs for any period by using the Usage Period calendars. A description of each breadcrumb icon follows.

Map Basics



To view a road and highway map, click the **Road** button.

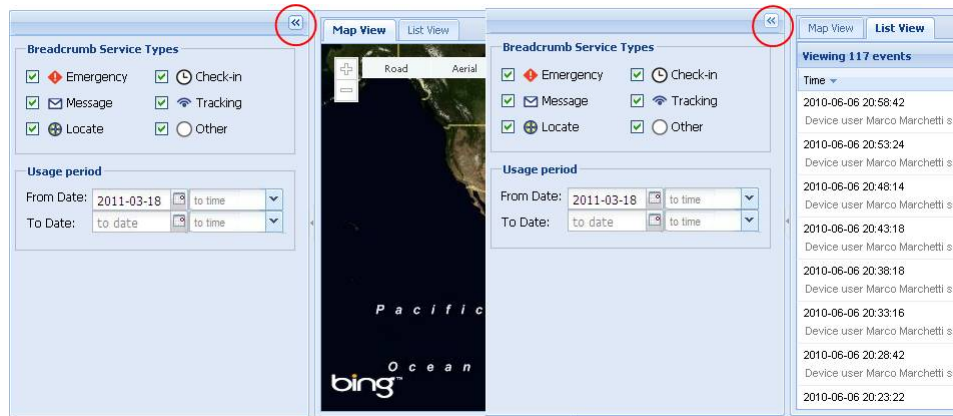
To see an image view (photo or satellite) of the map, click the **Aerial** button.

To see a combined road and aerial map, click the **Hybrid** button.

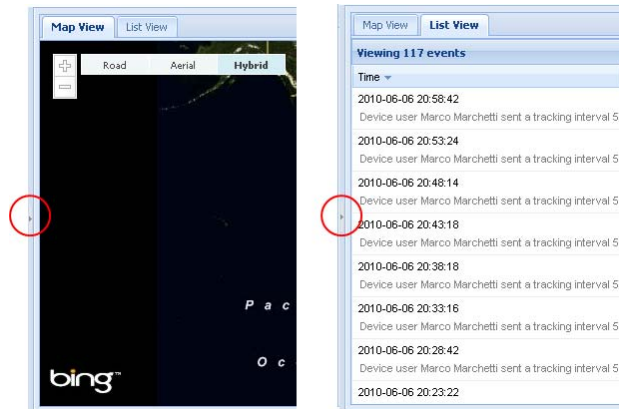
To zoom in, click the **+** (plus) button, hold the button to zoom in continuously or use the mouse wheel.

To zoom out, click the - (**minus**) button, hold the button to zoom out continuously or use the mouse wheel.

To expand the Map or List View, click the  button.



To collapse the Map or List View, click the  button. The button is located on the left edge of the map display area, about half-way down.



To move the map, place your cursor on the map, click and hold the left mouse button, and drag the map.

Breadcrumb Icons

Breadcrumbs follow your movements in the field and mark key events like check-in or locate. They are tracked by the state (a combination of color and image) of your device, the service type, and the time and direction of the breadcrumb move. When a new “head-crumb” appears, it indicates movement and displays on the next location. The current head-crumbs changes shape to a non-head-crumbs, with the related information still visible, as illustrated in [Figure 2](#).

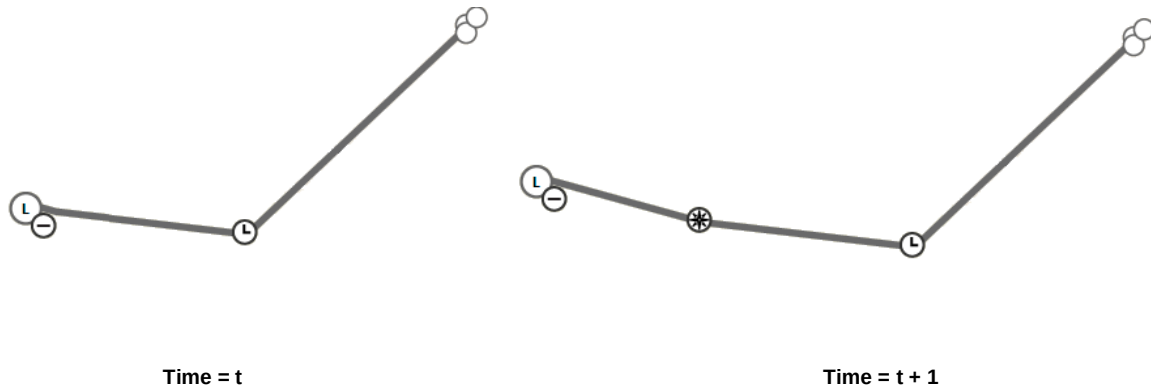


Figure 2: An icon headcrumb changes shape to a non-head crumb (in $t + 1$) when a GeoPro *Messenger* user has moved to another location

The device icon represents the service used to create the breadcrumb; that is, check-in or locate will have different icons. The largest breadcrumb is the most recent one, and it indicates the last message received from the device. See [Table 2](#) for a description of the map icon types.

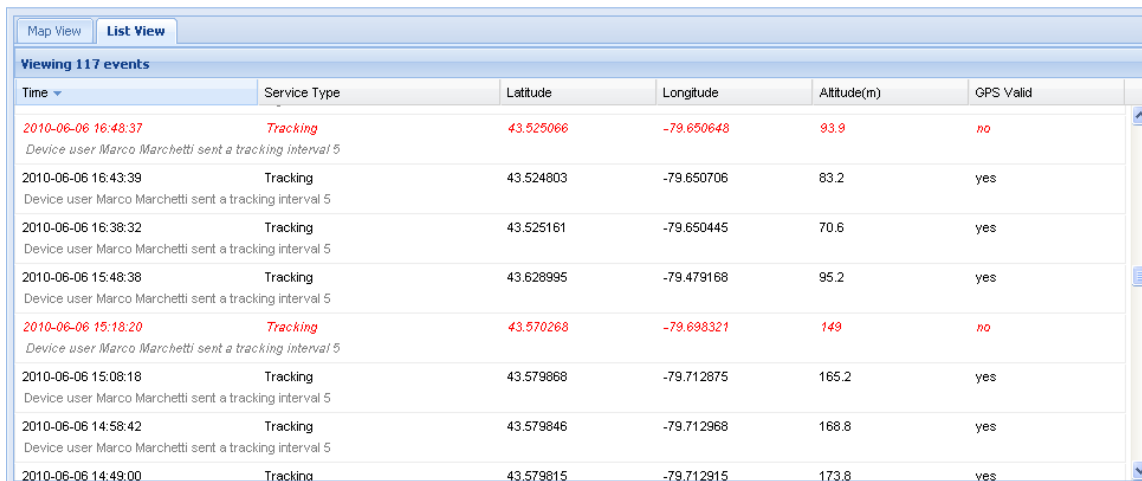
NOTE: When you roll over any breadcrumb with your mouse pointer, location report details appear in the callout. The +/- symbol allows you to expand or collapse all destination breadcrumbs.

Table 2: Map icons representing GeoPro *Messenger* events

Icon	Service
	Headcrumb Emergency State Icon – shown for the most recent breadcrumb when a user is in an Emergency state.
	Headcrumb High Risk State Icon – shown for the most recent breadcrumb when a user is in a High Risk state.
	Headcrumb Icon Normal State – shown for the most recent breadcrumb.
	Headcrumb Expand Icon – click the icon to show all breadcrumbs for the selected date range.
	Headcrumb Collapse Icon – click the icon to collapse breadcrumbs for the selected date range and only show the headcrumb.
	Tracking
	Locate
	Check-in
	Text Messaging
	Generic – shown for field status updates, etc.

Using the List View

The List View provides details relating to each breadcrumb: date/time, service type and associated event, location, altitude, and whether or not the GPS reading associated with an event is valid (Yes) or invalid (No). Breadcrumbs with invalid GPS readings are displayed in *red italic*.



Time	Service Type	Latitude	Longitude	Altitude(m)	GPS Valid
2010-06-06 16:48:37 <i>Device user Marco Marchetti sent a tracking interval 5</i>	Tracking	43.525066	-79.650648	93.9	no
2010-06-06 16:43:39 Device user Marco Marchetti sent a tracking interval 5	Tracking	43.524803	-79.650706	83.2	yes
2010-06-06 16:38:32 Device user Marco Marchetti sent a tracking interval 5	Tracking	43.525161	-79.650445	70.6	yes
2010-06-06 15:48:38 Device user Marco Marchetti sent a tracking interval 5	Tracking	43.628995	-79.479168	95.2	yes
2010-06-06 15:18:20 <i>Device user Marco Marchetti sent a tracking interval 5</i>	Tracking	43.570268	-79.698321	149	no
2010-06-06 15:08:18 Device user Marco Marchetti sent a tracking interval 5	Tracking	43.579868	-79.712875	165.2	yes
2010-06-06 14:58:42 Device user Marco Marchetti sent a tracking interval 5	Tracking	43.579846	-79.712968	168.8	yes
2010-06-06 14:49:00	Tracking	43.579815	-79.712815	173.8	yes

Setting the Usage Period

The usage period lets you specify the date range for which you would like to view breadcrumbs using either the map or list views. You can think of it as a way to filter the information displayed.

To filter breadcrumbs by date:

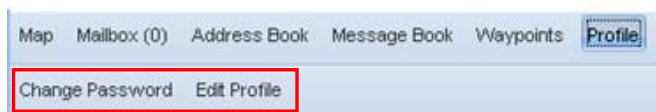
- Use the **Usage Period** calendars  to select the start/end date and time for the period you want to display breadcrumb details.
- With the **Map View** selected, place your cursor over the breadcrumb. A callout displays specific breadcrumb location details, including the service type.
- Click the breadcrumb **+** (**plus**) sign to expand the breadcrumb trail, or click the **-** (**minus**) sign to collapse the breadcrumb trail.

To filter a breadcrumb by service type:

- Use the **Breadcrumb Service Types** check boxes on the left to filter which breadcrumbs are displayed. Select the checkbox to have the service displayed, or clear it to remove it from the map or list views. By default, all breadcrumb services are displayed.

Managing Your Account Profile

On the **Profile** tab, you can **Change Password** and **Edit Profile** to keep the global list up-to-date.



Changing Your Password

To change your password:

1. Click **Change Password**. The **Change Password** dialog box appears.



The **Change Password** dialog box contains the following fields and buttons:

- Change your password.** (Instructional text)
- *Current Password:** (Text input field with masked characters)
- *New Password:** (Text input field with masked characters)
- *Confirm Password:** (Text input field with masked characters)
- Change Password** (Button, highlighted with a red box)
- Cancel** (Button)

2. Type your current password, a new password, and then confirm your new password. Your password must be at least eight (8) characters long and use the following:

- At least one uppercase character
- At least one lowercase character
- At least one numeric character
- At least one non-alpha-numeric character

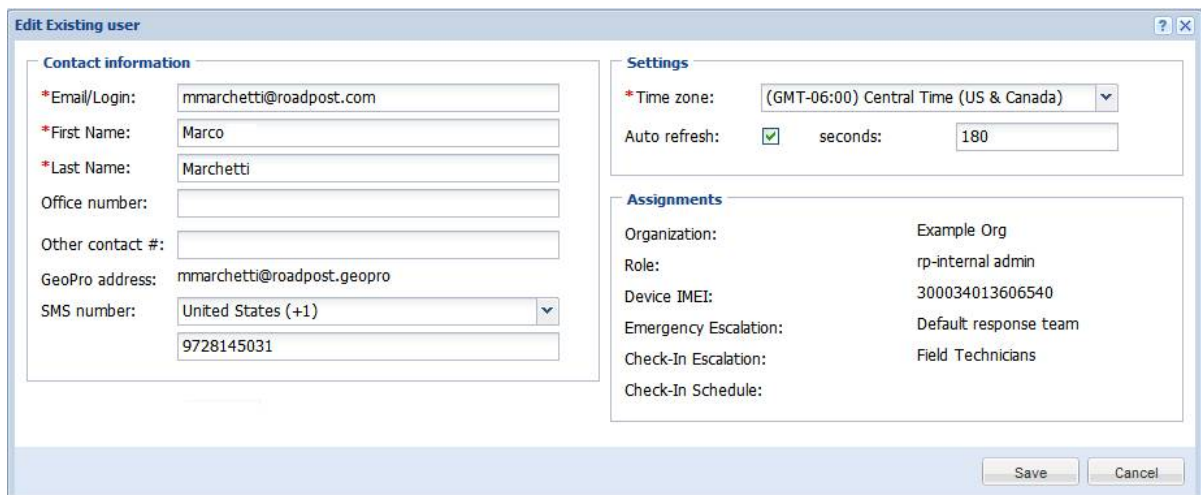
3. Click **Change Password**.

NOTE: If your password does not meet the requirements, an error message will inform you about what you need to include in your password.

Editing Your Profile

To edit your user profile:

1. Click **Edit Profile**. The **Edit Existing User** dialog box appears.



The **Edit Existing user** dialog box is divided into two main sections: **Contact information** and **Settings**.

Contact information:

- *Email/Login:** mmarchetti@roadpost.com
- *First Name:** Marco
- *Last Name:** Marchetti
- Office number:** (Empty field)
- Other contact #:** (Empty field)
- GeoPro address:** mmarchetti@roadpost.geopro
- SMS number:** United States (+1) (Dropdown menu)
- 9728145031 (Text input field)

Settings:

- *Time zone:** (GMT-06:00) Central Time (US & Canada) (Dropdown menu)
- Auto refresh:** ☒ seconds: 180

Assignments:

Organization:	Example Org
Role:	rp-internal admin
Device IMEI:	300034013606540
Emergency Escalation:	Default response team
Check-In Escalation:	Field Technicians
Check-In Schedule:	

Buttons: **Save** and **Cancel**

2. Review and update the data in the **Contact information** and **Settings** areas.
3. In the **Settings** area, you can change the **Auto refresh** setting:
 - Select the **Auto refresh** checkbox to turn it on (clear the checkbox to turn it off).
 - The default refresh rate is every 60 seconds; you can change this, for example, to 180 seconds.

Certifications

FCC compliance statement (United States)

FCC Class B Part 15

This device complies with Part 15 of the Federal Communications Commission (FCC) Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

CAUTION: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the manufacturer's instructions, may cause interference harmful to radio communications. There is no guarantee, however, that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.

Industry Canada certification

This GeoPro device complies with Industry Canada RSS 102, RSS 132, RSS 133, and RSS 210, under certification number 9027AGPM1000.

Class B compliance

This GeoPro device complies with the Class B limits for radio noise emissions as set out in the interference-causing equipment standard entitled "Digital Apparatus," ICES-003 of Industry Canada.

EU regulatory conformance

GeoPro LBS Inc. hereby declares that this GeoPro *Messenger* device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. The Declaration of Conformity made under Directive 1999/5/EC (HG nr.88/2003) is available for viewing at the following location in the EU community: www.geoprosolutions.com/declarationofconformity

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Glossary

Term	Definition
Administrator	This is a GeoPro Web Application user with administration authority to define enterprise-specific application behavior, create other users (including Administrators), and define all user profiles. User access rights are defined by role-based permissions.
Breadcrumb	An X, Y coordinate without descriptive information that is generally one of a series of points collected when GPS is tracking and collecting geographical information. Similar terms to describe the same principle are 'Tracks', 'Trails', 'Snail Trails', or 'Paths'.
Device Manager	Device user's portion of the GeoPro Web Application.
Device Manager User	Refers to a user who has been given a device and is logged into the Device Manager to administer their device. The portion of the GeoPro Web Application accessed by a Device Manager user is not the same as other GeoPro Web Application users. The Device Manager user accesses only their personal data including information related to their profile, predefined messages and addresses, or usage history.
GeoPro <i>Messenger</i>	The handheld device communicating with Iridium satellite service.
GeoPro <i>Messenger</i> User	Refers to any user "holding" a device (that is, the user interacting with the device at any given moment).
GeoPro Web Application User	This user's main role is to work with the GeoPro Web Application. They manage devices, assign devices and communicate with device users, etc.
IMEI	International Mobile Equipment Identifier – a unique 15-digit sequence assigned to each device.
Message	Typically refers to text messages (SMS or email).
SBD	Short Burst Data – Iridium data protocol used by the GeoPro <i>Messenger</i> to communicate over the Iridium Satellite network.
Tenant	The enterprise or government customer; also applies to consumer when the consumer model is activated.
Waypoint	A special type of X, Y coordinate designated with a name – possibly describing the location or attributes associated with the location. Waypoints generally have associated metadata that contain descriptive information, including the author, time and date the waypoint was created.
Web Application	The GeoPro Web Application is responsible for all business logic, access control and database transactions.



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